PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU			
PCT	То:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 05 November 2001 (05.11.01)	ATOFINA RESEARCH Patent Dept. Zone Industrielle C B-7181 Seneffe (Feluy) BELGIQUE			
Applicant's or agent's file reference				
F-755 WO	IMPORTANT NOTIFICATION			
International application No. PCT/EP00/05397	International filing date (day/month/year) 08 June 2000 (08.06.00)			
The following indications appeared on record concerning: The following indications appeared on record concerning: the applicant the inventor	the agent the common representative			
Name and Address FINA RESEARCH S.A.	State of Nationality State of Residence BE BE			
Zone Industrielle C B-7181 Seneffe (Feluy) Belgium	Telephone No.			
	Facsimile No.			
	Teleprinter No.			
2. The International Bureau hereby notifies the applicant that the person X the name the add				
Name and Address	State of Nationality State of Residence BE BE			
ATOFINA RESEARCH Zone Industrielle C B-7181 Seneffe (Feluy)	Telephone No.			
Belgium	Facsimile No.			
	Teleprinter No.			
3. Further observations, if necessary:				
4. A copy of this notification has been sent to:				
X the receiving Office	the designated Offices concerned			
the International Searching Authority	X the elected Offices concerned			
X the International Preliminary Examining Authority	other:			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer R. Chrem			
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38			

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

То:

Commissioner
US Department of Commerce

United States Patent and Trademark

Office, PCT

2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

Date of mailing (day/month/year) 19 February 2001 (19.02.01)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office	
International application No.	Applicant's or agent's file reference	_
PCT/EP00/05397	F-755 WO	
International filing date (day/month/year)	Priority date (day/month/year)	
08 June 2000 (08.06.00)	10 June 1999 (10.06.99)	
Applicant		
DUPIRE, Marc et al		

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on: 15 December 2000 (15.12.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Zakaria EL KHODARY

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Int llectual Property Organization International Bureau



(43) International Publication Date 21 December 2000 (21.12.2000)

PCT

(10) International Publication Number WO 00/77090 A2

(51) International Patent Classification⁷: C08L 23/10

(21) International Application Number: PCT/EP00/05397

(22) International Filing Date: 8 June 2000 (08.06.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 99111318.4 10 June 1999 (10.06.1999) EF

(71) Applicant (for all designated States except US): FINA RE-SEARCH S.A. [BE/BE]; Zone Industrielle C, B-7181 Seneffe (Feluy) (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DUPIRE, Marc [BE/BE]; Rue Mauric Flament (H.), 4, B-7022 Mons (BE). MICHEL, Jacques [BE/BE]; Chaussée de Marche, 2/C, B-7181 Seneffe (BE).

(74) Agent: FINA RESEARCH S.A.; Patent Dept., Zone Industrielle C, B-7181 Seneffe (Feluy) (BE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

 Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



O 00/77090 A2

(54) Title: POLYPROPYLENE WITH HIGH MELT STRENGTH AND DRAWABILITY

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 21 December 2000 (21.12.2000)

PCT

(10) International Publication Number WO 00/77090 A3

(51) International Patent Classification7: C08L 23/10

(21) International Application Number: PCT/EP00/05397

(22) International Filing Date: 8 June 2000 (08.06.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

99111318.4

10 June 1999 (10.06.1999) EF

- (71) Applicant (for all designated States except US): FINA RE-SEARCH S.A. [BE/BE]; Zone Industrielle C, B-7181 Seneffe (Feluy) (BE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DUPIRE, Marc [BE/BE]; Rue Mauric Flament (H.), 4, B-7022 Mons (BE). MICHEL, Jacques [BE/BE]; Chaussée de Marche, 2/C, B-7181 Seneffe (BE).
- (74) Agent: FINA RESEARCH S.A.; Patent Dept., Zone Industrielle C, B-7181 Seneffe (Feluy) (BE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

With international search report.

(88) Date of publication of the international search report: 8 February 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



10/009625

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/EP 00/05397	08/06/2000	10/06/1999			
Applicant					
FINA RESEARCH S.A.					
This International Search Report has been	n prepared by this International Searching Auth	nority and is transmitted to the applicant			
according to Article 18. A copy is being tra					
This International Search Report consists					
X It is also accompanied by	a copy of each prior art document cited in this	report.			
Basis of the report					
	a. With regard to the language , the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).					
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: 					
contained in the international application in written form.					
filed together with the inte	rnational application in computer readable form	n.			
	this Authority in written form.				
	this Authority in computer readble form.				
	osequently furnished written sequence listing d is filed has been furnished.	oes not go beyond the disclosure in the			
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished					
2. Certain claims were found unsearchable (See Box I).					
3. Unity of invention is lacking (see Box II).					
4. With regard to the title ,					
X the text is approved as submitted by the applicant.					
the text has been established by this Authority to read as follows:					
5. With regard to the abstract,					
the text is approved as submitted by the applicant.					
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.					
6. The figure of the drawings to be pub	lished with the abstract is Figure No.				
as suggested by the appl	icant.	None of the figures.			
because the applicant fai	led to suggest a figure.				
because this figure better	characterizes the invention.				



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C08L23/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\frac{\text{Minimum documentation searched (classification system followed by classification symbols)}}{IPC~7~C08L~C08J~C08F~C08K}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	EP 0 942 013 A (GRAND POLYMER) 15 September 1999 (1999-09-15) examples X-9	1-3, 7-14, 18-25, 29-33
Y	& WO 99 07752 A (GRAND POLYMER) 18 February 1999 (1999-02-18)	4-6, 15-17, 26-28
Y	US 5 549 867 A (GESSNER SCOTT L ET AL) 27 August 1996 (1996-08-27) column 1, line 16 -column 2, line 31; examples 16-20	4-6, 15-17, 26-28
	-/	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
8 September 2000	22/09/2000
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer
Fax: (+31-70) 340-3016	Schmidt, H



PCT/EP 00/05397

US 5 494 965 A (HARLIN ALI ET AL) 27 February 1996 (1996-02-27) column 3, line 447 -column 4, line 16 US 5 578 682 A (WHITE DONALD A) 26 November 1996 (1996-11-26) column 2, line 19 -column 4, line 52; example 26	US 5 494 965 A (HARLIN ALI ET AL) 27 February 1996 (1996-02-27) column 3, line 447 -column 4, line 16 US 5 578 682 A (WHITE DONALD A) 26 November 1996 (1996-11-26) column 2, line 19 -column 4, line 52; example 26 EP 0 310 734 A (FINA TECHNOLOGY) 12 April 1989 (1989-04-12)		ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
27 February 1996 (1996-02-27) column 3, line 447 -column 4, line 16 US 5 578 682 A (WHITE DONALD A) 26 November 1996 (1996-11-26) column 2, line 19 -column 4, line 52; example 26 EP 0 310 734 A (FINA TECHNOLOGY) 12 April 1989 (1989-04-12)	27 February 1996 (1996-02-27) column 3, line 447 -column 4, line 16 US 5 578 682 A (WHITE DONALD A) 26 November 1996 (1996-11-26) column 2, line 19 -column 4, line 52; example 26 EP 0 310 734 A (FINA TECHNOLOGY) 12 April 1989 (1989-04-12)	ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
26 November 1996 (1996-11-26) column 2, line 19 -column 4, line 52; example 26 EP 0 310 734 A (FINA TECHNOLOGY) 12 April 1989 (1989-04-12)	26 November 1996 (1996-11-26) column 2, line 19 -column 4, line 52; example 26 EP 0 310 734 A (FINA TECHNOLOGY) 12 April 1989 (1989-04-12)	,	27 February 1996 (1996-02-27)	15-17,
12 April 1989 (1989-04-12)	12 April 1989 (1989-04-12)	1	26 November 1996 (1996-11-26) column 2, line 19 -column 4, line 52;	1-33
			EP 0 310 734 A (FINA TECHNOLOGY) 12 April 1989 (1989-04-12)	1-33

INTERNATIONAL SEARCH REPORT Information on patent family members

PCT/EP 00/05397

Patent document cited in search repo	rt	Publication date		Patent family member(s)	Publication date
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			JP	2669833 B	29-10-1997
			KR US	9508152 B 4975403 A	25-07-1995 04-12-1990

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

TITLE OF INVENTION

APPLICANT

Box No. I

Box No. II

Name and address:

LGIUM

Belgium

FINA RESEARCH S.A. ZONE INDUSTRIELLE C **B-7181 SENEFFE (FELUY)**

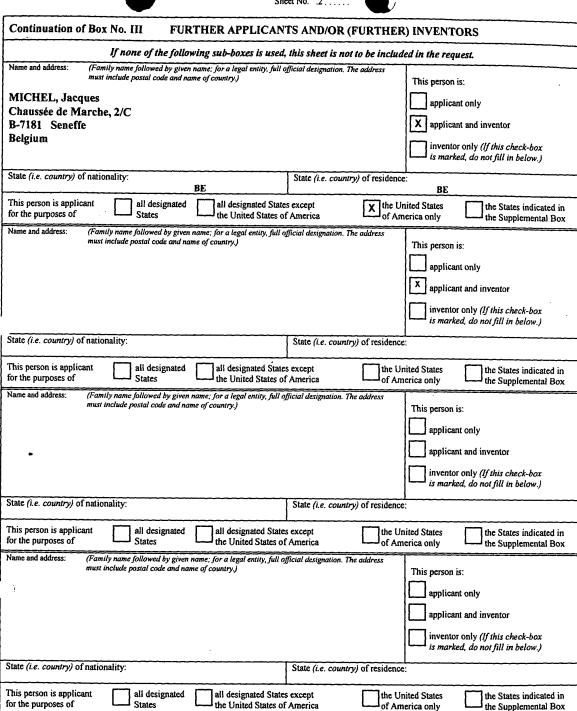
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To receiving Office use only		

	For rece	$\frac{10}{10} \frac{10}{10} = \frac{10}{100} = \frac{10}{1$	
PCT	International Application No.	fac 488 du 8/6/00	
REQUEST		,	
	International Filing Date		
igned requests that the present mal application be processed the Patent Cooperation Treaty.			
	Name of receiving Office and "I	PCT International Application"	
	Applicant's or agent's file reference (if desired) (12 characters maxi-		
TLE OF INVENTION Polypropylene with	high melt strength and draw	wability	
PLICANT			
(Family name followed by given name; for a legal address must include postal code and name of cou		This person is also inventor	
CH S.A.		Telephone No.	
RIELLE C		32 64 51.41.11	
(FELUY)		Facsimile No.	
		32 64 51.46.57	
		Teleprinter No.	
f nationality:	State (i.e. country) of residence:	<u> </u>	
BE		BE	
		United States the States indicated in the Supplemental Box	

		Teleprinter No.		
State (i.e. country) of nationality:	State (i.e. country) of residence:			
BE		BE		
		United States the States indicated in the Supplemental Box		
Box No. III FURTHER APPLICANT(S) AND/C	OR (FURTHER) INVENTOR	R(S)		
Name and address (Family name followed by given name; for a legal address must include postal code and name of con	l entity, full official designation. The untry.)	This person is:		
DUPIRE, Marc		applicant only		
Rue Maurice Flament (H.), 4 7022 MONS		X applicant and inventor		
Belgium		inventor only (If this check-box is marked, do not fill in below.)		
State (i.e. country) of nationality: BE	State (i.e. country) of residence:	BE		
		United States the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated on a continuation sheet.				
Box No. IV AGENT OR COMMON REPRESE	NTATIVE; OR ADDRESS	FOR CORRESPONDENCE		
The person identified below is hereby/has been appointed to act or representative		nt common		
of the applicant(s) before the competent International Authorities				
Name and address: (Family name followed by given name; for a lege address must include postal code and name of co	nl entity, full official designation. The nuntry.)	Telephone No.		
		32 64 51.41.11		
FINA RESEARCH S.A.		Facsimile No.		
PATENT DEPARTMENT		32 64 51.46.57		
ZONE INDUSTRIELLE C		Teleprinter No.		
B-7181 SENEFFE (FELUY)		Totoprinted 140.		

Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to

Sheet	Nin	2		
ついいいし	INO.	.4 .		



Form PCT/RO/101 (continuation sheet) (July 1993; reprint January 1996)

Further applicants and/or (further) inventors are indicated on another continuation sheet.

See Notes to the request form

BO	X No.	V DESIGNATION OF STATES								
Th	e foll	owing designations are hereby made under Rule 4.9(a) (n	nark	the ar	policable check-hores; at least one must be marked					
The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked): Regional Patent										
182	ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare									
X	EA	A Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Furzing Page.								
		P European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT								
Ø	OA	OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, and other dated line)								
Na	tions	al Patent (if other kind of protection or treatment desired, spec	 	no dati	ad lima)					
		United Arab Emirates								
		Albania			Liberia					
		Armenia		LS	Lesotho					
		Austria	_	LT	Lithuania					
121	AII	Australia			Luxembourg					
		Australia			Latvia					
		Azerbaijan	X	MA	Morocco					
		Bosnia and Herzegovina	Z	MD	Republic of Moldova					
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R	BG	Bulgaria	X	MK	The former Yugoslav Republic of Macedonia					
		Brazil								
図	BY	Beiarus	X	MN	Mongolia					
	CA	Canada			Malawi					
Ø	CH:	and LI Switzerland and Liechtenstein		MX	Mexico					
K	CN	China	図	NO	Norway					
X	CR	Costa Rica		NZ	New Zealand					
K	CU	Cuba		PL						
X	CZ	Czech Republic		PT	Poland					
		Germany		RO	Portugal					
M	DK	Denmark		RU	Romania					
		Dominica		SD	Russian Federation					
		Estonia	_		Sudan					
177	ES	Spain	=	SE	Sweden					
Ø		Finland		SG	Singapore					
		United Kingdom	=	SI	Slovenia					
		Grenada	=	SK	Slovakia					
		Georgia	=	SL	Sierra Leone					
22	CU	Chan		TJ	Tajikistan					
		Ghana	_	TM	Turkmenistan					
		Gambia		TR	Turkey					
127	HK.	Croatia		TT	Trinidad and Tobago					
		Hungary		TZ	United Republic of Tanzania					
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		Democratic People's Republic of Korea	N	ZA	South Africa					
		***************************************			Zimbabwe					
X	KR	Republic of Korea	Ch	eck-t	oxes reserved for designating States which have					
		Kazakhstan	bec	ome	poxes reserved for designating States which have party to the PCT after issuance of this sheet:					
_		Saint Lucia	X	and	any other this which were available					
		Sri Lanka	ō	بله	heling					
		ionami Designation Ctatament. In addition to the design	٠.							

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Sheet No.	4				
				•	

Box No. VI PRIORITY CLA		Freshand	
The priority of the following earlier	application(s) is hereby claimed:	runner priority claims are inc	licated in the Supplemental Box
(in which, or for which, the application was filed)	Filing Date (day/month/year)	Application No.	Office of filing (only for regional or
item (1) EP	10.06.1999	99 111 318.4	international application)
item (2)			EP
item (3)			
Mark the following check-box if the application is the receiving Office (a	certified copy of the earlier application fee may be required): requested to prepare and transmit to the earlier applications of the earlier a	is to be issued by the Office which for the	he purposes of the present internation
	earlier application(s) identified above a L SEARCHING AUTHORITY	as item(s):	
Choice of International Searching	Augh to grown	national Secretive ()	
Earlier search Fill in where a search out or requested and the Authority is s such search or request either by refer	(international, international-type or o	en; the two-letter code may be used): other) by the International Searching Aut il search to the extent possible, on the res translation thereof) or by reference to t	ISA /
Country (or regional Office): EP	Date (day/month/year):24.02.2		9 111 318.4
Box No. VIII CHECK LIST			
This international application contains the following number of sheets: 1. request : 4	I. X separate signed	ion is accompanied by the item(s) marke	
2. description : 14 sl	power of attorn	JCD/FL/MCR 6. separate inc	dications concerning
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igure No. of the draw	as item(s): vings (if any) should accompany the ab	Stract when it is published	
ox No. IX SIGNATURE OF A	PPLICANT OR ACENT		
ext to each signature, indicate the nan quest) INA RESEARCH S.A.	ne of the person signing and the capaci	ity in which the person signs (if such cap	acity is not obvious from reading the
delaure,	Phana		
e BRUYN, Johan	BRUYLANTS, Philippe		
Date of actual receipt of the purporte international application:	Ferrand 1 om	ice use only	
Corrected date of actual receipt due t timely received papers or drawings of the purported international application	ompleting		2. Drawings:
Date of timely receipt of the required corrections under PCT Article 11(2): International Searching Authority		Transmittal - 5	not received:
specified by the applicant:		until search fee is paid	yed
e of receipt of the record copy the International Bureau:	For International Bu	reau use only	
PCT/PO/IOI (text 1 - 2)			l de la companya de

ADDITIONAL SHEET

Representative's reference

F - 755 WO

Title of invention:

Polypropylene with high melt strength and drawability

Additional employees A.133(3) 1

or representatives

LEYDER Francis FINA Research S.A. Zone Industrielle C B - 7181 Seneffe (Feluy)

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DETRAIT Jean-Claude c/o FINA Research S.A. Zone Industrielle C

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At all instances, oral proceedings pursuant to Art. 116 (EPC) are requested unless one of the Applicant's requests can be granted.

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Fina Research S.A.

de Bruyn Johan

Bruylants Philippe

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Nr. der Anmeldung (des Patents)/Application/Patent No./ Nº de la demande (du brevet)

Zeichen des Vertreters (der vertreter) (max. 15 Positionen) Representative's Reference (max. 15 spaces) au maximum)

Référence du (des) mandataire(s) (15 caractères ou espaces PCT / EP F- 755 WO Ich (Wir) / I (We) / Je (Nous)2 DUPIRE, Marc MICHEL, Jacques Rue Maurice Flament (H.), 4 Chaussée de Marche, 2/C B-7022 Mons B-7181 Seneffe Belgium bevollmächtige(n) hiermit / do hereby authorise / autorise (autorisons) par le présente³ Belgium FINA RESEARCH S.A., Zone Industrielle C B-7180 Seneffe (Feluy) Belgium représenté soit conjointement par MM. de Bruyn et Bruylants, soit par M.Leyder (PG 23919) ou Mr Detrait (PG 23918) ou (Weitere Vertreter sind auf einem gesonderten Blatt angegeben. / Additional representatives indicated on supplementary sheet. / Les autres mandataires sont mentionnés sur une feuille supplémentaire.) mich (uns) zu vertreten als / to represent me (us) as / à me (nous) représenter en tant que Anmelder oder Patentinhaber / applicant(s) or patent proprietor(s) / demandeur(s) ou titulaire(s) du brevet, X Einsprechenden (Einsprechende) / opponent(s) / opposant(s), für mich (uns) zu handeln in den durch das Europäische Patentübereinkommen geschaffenen Verfahren in der (den) folgenden Patentanmeldung(en) oder dem (den) folgenden europäischen Patent(en)⁴ und Zahlungen für mich (uns) in Empfang zu nehmen: to act for me (us) in all proceedings established by the European Patent Convention concerning the following European patent application(s) or patent(s)4 and to receive payments on my (our) behalf: à agir en mon (notre) nom dans toute procédure instituée par la Convention sur le brevet européen et concernant la (les) demande(s) de brevet ou le (les) brevet(s) européen(s)⁴ suivant(s) et à recevoir des paiements en mon (notre) nom: POLYPROPYLENE WITH HIGH MELT STRENGTH AND DRAWABILITY. ainsi qu'à désigner FINA RESEARCH S.A. comme représentant commun. Weitere Anmeldungen oder Patente sind auf einem gesonderten Blatt angegeben. / Additional applications or patents indicated on supplementary sheet. / Les autres demandes ou brevets sont mentionnés sur une feuille supplémentaire. Die Vollmacht gilt auch für Verfahren nach dem Vertrag über die internationale Zusammenarbeit auf dem Gebiet des Patentwesens. This authorisation shall also apply to the same extent to any proceedings established by the Patent Cooperation Treaty. Ce pouvoir s'applique également à toute procédure instituée par le Traité de coopération en matière de brevets. Diese Vollmacht gilt auch für eventuelle europäische Teilanmeldungen./This authorisation also covers any European divisional applications. / Le présent pouvoir vaut également pour les demandes divisionnaires européennes qui pourraient être déposées. Untervollmacht kann erteilt werden. / Sub-authorisation may be given. / Le pouvoir pourra être délégué. X Ich (Wir) widerrufe(n) hiermit frühere Vollmachten in Sachen der obenbezeichneten Anmeldung(en) oder des obenbezeichneten Patents (der obenbezeichneten Patente)⁵. / I (We) hereby revoke previous authorisations in respect of the above application(s) or patent(s)⁵./ Je révoque (Nous révoquons) par la présente tout pouvoir antérieur, donné pour la (les) demande(s) ou le (les) brevet(s) mentionné(s) ci-dessus5 Ort / Place / Lieu **FELUY** Datum / Date 11.06.1999

Unterschrift(en) / Signature(s) DUPIRE, Marc MICHĖL, Jacques

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F. LEYDER

J.C. DETRALT

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DETRAIT Jean-Claude c/o FINA RESEARCH S.A., Dept. Brevets Zone Industraelle C B-6520 Seneffe

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Datum/ Date

4 décembre 1989

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W. BRACKE Administrateur Délégué

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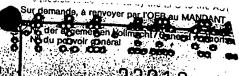
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LEYDER Francis C/o FINA RESEARCH S.A., Dpt. Brevets Zone Industrielle C B-6520 Behaffe

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PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORTET

(PCT Article 36 and Rule 70)

Applicant	s or a	gent's file reference						
1			FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
			International filing date (day/mont	th/year) Priority date (day/month/year)				
PCT/EF	200/0	5397	08/06/2000	10/06/1999				
C08L23	/10	tent Classification (IPC) or nation	onal classification and IPC	·				
1. This	interr		ation report has been prepare	ed by this International Preliminary Examining Authority				
2. This	REP	ORT consists of a total of 6	sheets, including this cover s	sheet.				
	Jeen (amended and are the basis	by ANNEXES, i.e. sheets of the for this report and/or sheets of the Administrative Instruction	ne description, claims and/or drawings which have containing rectifications made before this Authority ions under the PCT).				
Thes	e ann	exes consist of a total of 3	sheets.					
								
3. This i	report	contains indications relatin	ng to the following items:					
1	\boxtimes	Basis of the report						
11	. 🗆	Priority						
111		Non-establishment of opin	nion with regard to novelty, inv	ventive step and industrial applicability				
IV		Lack of unity of invention	·	, and a second of the second o				
V	×	Reasoned statement unde citations and explanations	er Article 35(2) with regard to r s suporting such statement	novelty, inventive step or industrial applicability;				
VI		Certain documents cited						
VII		Certain defects in the inter	rnational application					
VIII	×	Certain observations on the	ne international application					
Date of sub	missio	n of the demand	Date of c	completion of this report				
			Date of c	sompletion of this report				
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lame and no reliminary	examii	address of the international ning authority:	ļ	Authorized officer				
<u>a</u>))	NL-2 Tel. ₁	pean Patent Office - P.B. 5818 280 HV Rijswijk - Pays Bas -31 70 340 - 2040 Tx: 31 651 e	Schmid	dt, H				
	Fax:	+31 70 340 - 3016		ne No. +31 70 340 2461				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/05397

1	tni an	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:										
	1-	14	as originally fil	ed								
	Cla	aims, No.:										
	1-2	20	as received or	1	28/06/2001	with letter of	28/06/2001					
2.	ıan	With regard to the language , all the elements marked above were available or furnished to this Authority in the anguage in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is:										
		the purposes of the international search (under Hule 23.1(b)).										
		· <i>''</i>										
3.	Wit	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the nternational preliminary examination was carried out on the basis of the sequence listing:										
		contained in the int	ternational appl	ication in writte	n form.							
						able form						
		5										
		The statement that listing has been fur	the informationnished.	recorded in co	mputer readab	le form is identical	to the written sequence					
4.	The	amendments have	resulted in the	cancellation of:								
		the description,	pages:									
	\boxtimes	the claims,	Nos.:	21-33								
		the drawings,	sheets:									
5.		This report has bee considered to go be	n established a eyond the disclo	as if (some of) to osure as filed (F	he amendment Rule 70.2(c)):	s had not been ma	ide, since they have been					

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/EP00/05397

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 4,12,16

No:

Claims 1-3,5-11,13-15,17-20

Inventive step (IS)

Yes:

Claims

No:

Claims 1-20

Industrial applicability (IA)

Yes:

Claims 1-20

No: Claims

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Box I

1. Basis of the report:

The present report is based on the amended claims filed with letter of 28.6.2001. The amendments filed with the International Bureau are in conformity with Article 34(2)b PCT and allowable

Box V

2. Claims 1-3, 5-11, 13-15 and 17-20 are not novel acc. Art. 33(2) PCT

Subject matter of present claim 1 is the use of multimodal polypropylene of 50-70% of a high molecular weight fraction and 50-30% of a low molecular weight fraction and a dispersion index of 8 or higher, M_z/M_n =50-150 for improving the balance between melt strength and drawability when melt processed. Subject matter of claim 9 is the corresponding composition and of claim 13 a corresponding method of melt processing

D1 (EP-A-942013) is a family member and english translation of WO-A-99/7752, which was published on 18.2.1999 and therefore constitutes state of the art acc. Art. 33(2) and (3) PCT.

D1 describes high melt tension polypropylene blends for melt processing. The parameters shown are within the ranges of present application. Particularily, example X-9 in table 9 of D1 describes a polypropylene composition of $M_w/M_n=19.0$ and $M_z/M_w=4.8$. The ratio of M_z/M_n is then 19.0 x 4.8 = 91.2. The content of the higher molecular weight part is 42%, but page 9, lines 24-26 disclose a content of the higher molecular weight portion of 20-50%. The compositions are used for stretched or inflated films and have the advantage of high melt tension without breaking under stretching when producing films under high speed (page 18, lines 11-43, see also the values of melt tension and critical shearing rate in the examples). The series of examples 3 on page 47 ff. show, that no draw-down occurs upon vacuum forming. Somebody skilled in the art will regard this as an improvement of melt strength and drawability as desired in the use and method of present application. Claims 1, 9 and 13 hence are not new in the sense of Art.33(2) PCT

INTERNATIONAL PRELIMINARY International application No. PCT/EP00/05397 EXAMINATION REPORT - SEPARATE SHEET

2.2 The subject matter of claims 2, 8, 10, 14 and 20 is already disclosed in D1.

The subject matter of claims 5-7 and 17-19 is also disclosed in D1, example series 4., where the blends are extruded with peroxides and cross-linking aids as claimed in the above claims.

The peroxide claimed in claims 6 and 18 is mentioned on page 19, line 25

- 2.3 The subject matter of claims 3, 11 and 15 (55-65% content of high molecular weight fraction) and 4, 12 and 16 (ratio of melt indices) are not disclosed in D1. However, since the weight percentage ranges of the higher and lower melt fractions are dependent on the definition of these fractions, which is unclear, these claims apparently lack novelty (see VIII).
- 3. Claims 4, 12 and 16 are still not inventive acc. Art. 33(3) PCT
- 3.1 Closest prior art is D1. Difference of D1 to the present claims is a content of 55-65% and 45-35% of the first and second fraction (claims 3, 11 and 15) and a ratio of at least 5 of the melt indices of these fractions (claims 4, 12 and 16). The applicants' comparative examples do not disclose compositions of bimodal polypropylene blends having weight percentage ranges or melt index ratios outside these claimed ranges. The choice of such ranges hence is one out of a number of equally likely alternatives. As long as advantageous technical effects of such a choice of ranges are not proofen, the selection made is regarded as arbitrary and hence non-inventive. The applicant is asked to provide comparative examples of bimodal polypropylene blends with a melt index ratio of lower than 5 or high molecular weight part outside the range of 55-65% showing that the blends claimed in present application have an enhanced compromise of melt strength and drawability.

Box VIII

- 4. Claims 1, 3, 9, 11, 13 and 15 are not clear according Art. 6 PCT
- 4.1 The term "enhancing a compromise" in claim 1 is unclear and should be replaced by another formulation. It is particularily ambiguous how a compromise, i.e. balance

INTERNATIONAL PRELIMINARY International application No. PCT/EP00/05397 EXAMINATION REPORT - SEPARATE SHEET

between melt strength and drawability can be enhanced, i.e. made bigger. Even if the explanation given in the description of the application bridging pages 1 and 2 would be clear, this is not sufficient for the clarity of the claims, which have to be clear in themselves

4.2 The terms "high molecular weight" and low molecular weight" fraction in claims 1, 9 and 13 are ambiguous and do not sufficiently define the molecular weight ranges of the high molecular weight fraction and the low molecular weight fraction. Since polymers have a range of molecular weights, the ranges of the two fraction can overlap and it is not clear, whether the overlapping parts belong to the first or second fraction, thus rendering the weight percentages of the fractions defined in claims 1,3, 9, 11, 13 and 15 unclear as well.